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MARINE INDUSTRY STANDARDS  
WELDING  
INDUSTRIAL ENGINEERING  
EDUCATION AND TRAINING

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# **THE NATIONAL SHIPBUILDING RESEARCH PROGRAM**

## **Contaminated Sediment Management Guide for NSRP Shipyards Appendix 2: Shipyard Survey**

U.S. DEPARTMENT OF THE NAVY  
CARDEROCK DIVISION,  
NAVAL SURFACE WARFARE CENTER

in cooperation with  
National Steel and Shipbuilding Company  
San Diego, California

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# **Sediment Survey Results** **November 1997**

<u>Question</u>	<u>Yes</u>	<u>No</u>
<b>Sediment Monitoring Required</b>	3, 1*	4
<b>Required by</b>	NPDES, CERCLA, *Navy for radionuclides	
<b>Type of Monitoring</b>	Metals, Semi-Volatiles, Bioassay, Pesticides, PCB, TBT, PAH, Paint Chip Analysis	
<b>Dredging w/in last 5-10 yrs</b>	7	1
<b>Type</b>	Maintenance, Homeporting Ships, Installation of Drydock	
<b>Permit Required for Dredging</b>	USACE	
<b>Treatment</b>	Dewatering	
<b>Disposal Methods</b>	Ocean Disposal, River Disposal, Upland Disposal	
<b>Any Contamination Found</b>	1	6
<b>Type of Contaminants</b>	Cu, Zn	
<b>% of Covered Work Areas (e.g., Roofed)</b>	(10%, 30%, 9.6%, 5%, 30%, 70%, 10-15%, 50%)	
<b>Bermed or Secondary Contained Areas</b>	8	0
<b>Operations &amp; Processes</b>		
<b>Welding</b>	8	0
<b>Blasting</b>	8	0
<b>Type of Blast Media</b>	Cu slag (4), Steel Grit or Shot (6), Garnet (4), Silica Sand (2), Walnut Shells (2), Al Oxide (2), Glass Bead (2), Coal Slag (3), Hydro Blasting (3)	
<b>Painting</b>	8	0
<b>Primer Type</b>	Zinc-Based, Epoxy	
<b>Topcoat</b>	Epoxy, Polyurethane, Alkyd, Acrylic, Anti-Foulant	
<b>Plating &amp; Surface Treatment</b>	5	3
<b>Cleaning</b>		
<b>Hand Wiping</b>	8	0
<b>Ultrasonic</b>	3	5
<b>Steam Gun Stripping</b>	4	4
<b>Vapor Phase</b>	1	7
<b>Vessel Cleaning</b>	8	0

Facility Name \_\_\_\_\_

**FOLLOW THE DEVELOPMENT AND ANALYZE THE IMPACT OF  
THE FEDERAL GUIDELINES FOR SEDIMENT MANAGEMENT**

**N1-96-02**

**Shipyard Survey  
(Telephone Survey)**

**Part A. General Facility Information**

1. Date of Completion of the Questionnaire: \_\_\_\_\_
2. Facility Name: \_\_\_\_\_
3. Address: \_\_\_\_\_  
\_\_\_\_\_
4. Questionnaire Completed by: \_\_\_\_\_
5. Telephone No.: \_\_\_\_\_ Fax: \_\_\_\_\_
6. Approximate Number of Employees at This Facility: \_\_\_\_\_
7. Size of Shipyard:
  - a. Land Area: \_\_\_\_\_
  - b. Waterfront: \_\_\_\_\_
8. Type of Work (Repair/New Construction): \_\_\_\_\_  
\_\_\_\_\_
9. Percentage of Covered Work Areas (eg., Roofed): \_\_\_\_\_
10. Bermed and Secondary Contained Areas. Please List Processes or Provide  
Percentage of Yard Bermed or Secondary-Contained: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part B. Body of Water**

1. Name of Receiving Body of Water: \_\_\_\_\_
2. Depth, if known: \_\_\_\_\_
3. Current Speed, if Known: \_\_\_\_\_
4. Beneficial Uses: \_\_\_\_\_  
\_\_\_\_\_
5. Any Water Monitoring/Sediment Monitoring Performed: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Any Additional Information: \_\_\_\_\_  
\_\_\_\_\_

Facility Name \_\_\_\_\_

**Part C. Sediment Management**

- a. Is Sediment Monitoring Required by Any Federal, State, or Local Regulatory Agency? \_\_\_\_\_

If "Yes", Please Specify: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part D. Dredging**

- a. Has Your Facility Performed Any Dredging Operations Within the Last 5-10 Years? If "Yes", Please Answer Questions b. through k. \_\_\_\_\_

- b. When? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- c. Why? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- d. Any Permits Required? Please Specify: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- e. Name of the Regulating Agency: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- f. Quantity Dredged: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Facility Name \_\_\_\_\_

g. Disposal Method (eg., Ocean, River, Stream, Upland): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

h. Any Treatment Performed? Please Specify: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

i. Any Analytical Data Available? Please Provide: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

j. Any Contamination Found? Please Specify: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

k. If Kept Confidential, Can Data Be Published In The NSRP Document? \_\_\_\_\_

\_\_\_\_\_

### Part E. Shipyard Processes & Material Usage

Please '✓' the operations that are carried out at your facility.

#### 1. Welding

Type of Welding. Please Specify Indoor/Outdoor: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Potential for Reaching Pollutant Pathways? Please '✓' all applicable.

- a. Direct Discharge Pathway \_\_\_\_\_
- b. Airborne Pathway \_\_\_\_\_
- c. Surface Runoff Pathway \_\_\_\_\_

Facility Name \_\_\_\_\_

**2. Abrasive Blasting**

Type of Blasting. Please Provide Approximate Quantity Per Year Usage: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

- a. Direct Discharge Pathway \_\_\_\_\_
- b. Airborne Pathway \_\_\_\_\_
- c. Surface Runoff Pathway \_\_\_\_\_

**3. Painting**

Primer. Type & Quantity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Topcoat. Type & Quantity: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

- a. Direct Discharge Pathway \_\_\_\_\_
- b. Airborne Pathway \_\_\_\_\_
- c. Surface Runoff Pathway \_\_\_\_\_

**4. Plating & Surface Treatment Operations**

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

- a. Direct Discharge Pathway \_\_\_\_\_
- b. Airborne Pathway \_\_\_\_\_
- c. Surface Runoff Pathway \_\_\_\_\_

**5. Cleaning Operations**

**a. Hand Wiping**

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

- 1) Direct Discharge Pathway \_\_\_\_\_
- 2) Airborne Pathway \_\_\_\_\_
- 3) Surface Runoff Pathway \_\_\_\_\_

**b. Ultrasonic Cleaning**

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

- 1) Direct Discharge Pathway \_\_\_\_\_
- 2) Airborne Pathway \_\_\_\_\_



Facility Name \_\_\_\_\_

3) Surface Runoff Pathway \_\_\_\_\_

c. Steam Gun Stripping \_\_\_\_\_

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

1) Direct Discharge Pathway \_\_\_\_\_

2) Airborne Pathway \_\_\_\_\_

3) Surface Runoff Pathway \_\_\_\_\_

d. Vapor Phase Cleaning \_\_\_\_\_

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

1) Direct Discharge Pathway \_\_\_\_\_

2) Airborne Pathway \_\_\_\_\_

3) Surface Runoff Pathway \_\_\_\_\_

e. Vessel Cleaning \_\_\_\_\_

Potential for Reaching Pollutant Pathways? Please '√' all applicable.

1) Direct Discharge Pathway \_\_\_\_\_

2) Airborne Pathway \_\_\_\_\_

3) Surface Runoff Pathway \_\_\_\_\_

f. Other, Please Specify \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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